1		TITLE 35: ENVIRONMENTAL PROTECTION			
2		SUBTITLE I: ATOMIC RADIATION			
3		CHAPTER I: POLLUTION CONTROL BOARD			
4					
5		PART 1010			
6		PROCEDURES FOR REPORTING RELEASES OF			
7		RADIONUCLIDES AT NUCLEAR POWER PLANTS			
8					
9	SUBPART A: GENERAL PROVISIONS				
10					
11	Section				
12	1010.100	Purpose			
13	1010.102	Applicability			
14	1010.104	Scope			
15	1010.106	Definitions			
16	1010.108	Severability			
17					
18		SUBPART B: REPORTING			
19	1010 200				
20	1010.200	Evaluation of Releases			
21	1010.202	Reporting of Releases			
22	1010.204	Follow-up Written Report			
23 24	ALITHODIT	TV. Implementing and authorized by Sections 12.6 and 27 of the Environmental			
2 4 25		ΓY: Implementing and authorized by Sections 13.6 and 27 of the Environmental Act [415 ILCS 5/13.6 and 27].			
25 26	Protection A	ACT [413 ILCS 3/13.0 and 27].			
27	SOURCE:	Adopted at 32 III. Reg. 7789, effective May 2, 2008; amended in R18-28 at 47 III.			
28	SOURCE: Adopted at 32 Ill. Reg. 7789, effective May 2, 2008; amended in R18-28 at 47 Ill. Reg, effective				
29	Kcg				
30		SUBPART A: GENERAL PROVISIONS			
31		Septement in General Provisions			
32	Section 101	0.100 Purpose			
33					
34	This Part pro	escribes standards for detecting and reporting unpermitted releases of radionuclides			
35	from nuclear power plants <u>underpursuant to</u> Section 13.6 of the Illinois Environmental Protection				
36	Act [415 ILCS 5/13.6].				
37	_				
38	(Sou	rce: Amended at 47 Ill. Reg, effective)			
39					
40	Section 101	0.106 Definitions			
41					

42 43 44	Except as stated in this Section, or unless a different meaning of a word or term is clear from the context, the definition of words or terms in this Part <u>are shall be</u> the same as that applied to the same words or terms in the Illinois Environmental Protection Act [415 ILCS 5].
45	,
46 47	"Act" means the Illinois Environmental Protection Act [415 ILCS 5].
48	"Agency" means the Illinois Environmental Protection Agency.
49 50	
50	"Curie" or "Ci" means the quantity of radioactive material that produces producing
51	37 billion nuclear transformations per second.
52 52	
53	"Groundwater" means underground water whichthat occurs within the saturated
54	zone and geologic materials where the fluid pressure in the pore space is equal to
55	or greater than atmospheric pressure. [415 ILCS $5/3.2103.64$]
56	HITCMAH
57 50	"IEMA" means the Illinois Emergency Management Agency, <u>Division of Nuclear</u>
58 50	Safety.
59 60	"I " magna litan
60 61	"L" means liter.
61 62	"Licensee" means the holder of a license issued for a nuclear power plant under 10
63	CFR Chapter I.chapter I of title 10 of the Code of Federal Regulations.
64	CTR Chapter 1. chapter 1 of thie 10 of the Code of Federal Regulations.
65	"Licensee-controlled Licensee controlled area" means the land or property that is
66	owned, leased, or otherwise controlled by the licensee.
67	owned, leased, or otherwise controlled by the neclisee.
68	"Picocurie" or "pCi" means the quantity of radioactive material that
69	produces producing 2.22 nuclear transformations per minute. One pCi is one
70	trillionth (10 ⁻¹²) of one curie.
71	timonti (10) of one cure.
72	"Person" is any individual, partnership, co-partnership, firm, company, limited
73	liability company, corporation, association, joint stock company, trust, estate,
74	political subdivision, State agency, or any other legal entity, or their legal
75	representative, agent, or assigns. [415 ILCS 5/3.315]
76	representative, agent, or assignment the reservoir representation
77	"Station-generated Station generated liquids" means liquids used in, or as a part of,
78	the power generation process at a nuclear power plant and that contain, or potentially
79	could contain, radionuclides.
80	
81	"Surface water" means all water that is open to the atmosphere and subject to surface
82	runoff.

83

84	"Unpermitted release of a radionuclide" means any spilling, leaking, emitting,
85	discharging, escaping, leaching, or disposing of a radionuclide into groundwater,
86	surface water, or soil that is not permitted under State or federal law or
87	regulation. [415 ILCS 5/13.6(c)]. "Unpermitted release of a radionuclide" does
88	not include the discharge of a radionuclide from a point source at a designated
89	process water or cooling water outfall identified in the nuclear power plant's
90	National Pollutant Discharge Elimination System permit, if provided the discharge
91	is authorized in the nuclear power plant's United States Nuclear Regulatory
92	Commission operating license.
93	
94	(Source: Amended at 47 Ill. Reg, effective)
95	
96	Section 1010.108 Severability
97	•
98	If any provision in this Part or its application to any person or under any circumstances is
99	adjudged invalid, that such adjudication will shall not affect the validity of this Part as a whole or
100	of any portion not adjudged invalid.
101	
102	(Source: Amended at 47 Ill. Reg, effective)
103	·
104	SUBPART B: REPORTING
105	
106	Section 1010.200 Evaluation of Releases
107	
108	Within 24 hours after an unpermitted release of a radionuclide from a nuclear power plant into
109	groundwater, surface water, or soil, the licensee must evaluate the release in
110	compliance accordance with this Section to determine whether it must be reported. The
111	evaluation cannot take into account remedial actions taken in response to the release (i.e., the
112	evaluation must be based on the volumes of station-generated station generated liquids and
113	concentrations or quantities of radionuclides released, not on the volumes of station-
114	generated station generated liquids and concentrations or quantities of radionuclides remaining
115	after the initiation or completion of response actions). The If the release is required to be
116	reported, the licensee must report the release in compliance accordance with Section 1010.202 if
117	the unpermitted release of station-generated liquids either of this Part. a) Licensees must report
118	unpermitted releases of station generated liquids that result in tritium concentrations of 200
119	pCi/L or more outside of the licensee-controlled licensee controlled area or. b) Licensees must
120	report unpermitted releases of station generated liquids that contain tritium at quantities of 0.002
121	curies Curies or more.
122	
123	(Source: Amended at 47 Ill. Reg, effective)
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125	Section 1010.202 Reporting of Releases
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71		8)	The actions taken to respond to, contain, and mitigate the release;
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173		9)	The known and anticipated impacts to human health and the environment,
74			including but not limited to groundwater and surface water resources, due
75			<u>toas a result of</u> the release;
76			
77		10)	The names, addresses, and telephone numbers of persons at the nuclear
178			power plant who may be contacted for further information regarding the
79			release; and
80			
81		11)	The name and mailing address of the licensee of the nuclear power plant.
82			
83	c)		gency must post copies of the electronic reports it receives under this
84		Sectio	n on the Agency's website.
85			
86	(Sour	ce: Am	ended at 47 Ill. Reg, effective)
87			
88	Section 1010	.204 Fo	ollow-up Written Report
89			
90			or operator who reports a release under this Part must provide to the Agency
91		a follov	v-up written report of the release within five business days after reporting
92	the release.		
193		0	
94	a)		ollow-up report must confirm and update the information provided by the
95			ee under Section 1010.202 utilizing the best data available and must also
96		includ	e the following information:
97		4.5	
98		1)	Copies of all lab analyses used to confirm the presence of, or conducted in
99			response to, the release if lab analyses have been conducted;
200		•	
201		2)	Plan view and, if available, geological cross-section maps showing, at a
202			minimum, the location of the release, the locations of samples taken to
203			confirm the release if samples have been taken, the locations of samples
204			taken in response to the release if samples have been taken, the measured
205			and modeled extents of the release if known, the groundwater flow
206			direction if known, groundwater contours if known, the boundary of the
207			licensee controlled area, and structures, roads, and other surface features;
208			
209		3)	An estimate of the volume and radionuclide concentrations (in pCi/L) of
210			station generated liquids released but not recovered;
11			

212 213		4) An estimate of the quantities (in <u>curies</u> Curies) of radionuclides released but not recovered;
214 215		5) An updated description of activities taken in response to the release;
216		
217		6) If additional activities in response to the release are planned, a description
218		of those activities; and
219		
220		7) The name and signature of the <u>principal executive officer</u> Principal
221		Executive Officer for the nuclear power plant or the <u>principal executive</u>
222		officer's Principal Executive Officer's authorized agent.
223		
224	b)	The follow-up report must be submitted electronically on forms and in a format
225		prescribed by the Agency and must be submitted to addresses prescribed by the
226		Agency and IEMA. Within five business days after submission of the electronic
227		follow-up report, hard copies of the follow-up report must be submitted to the
228		Agency and IEMA at the following addresses:
229		
230		Illinois Environmental Protection Agency
231		Bureau of Water
232		Groundwater Section
233		1021 North Grand Avenue East
234		P.O. Box 19276
235		Springfield, <u>IL</u> H 62794-9276
236		
237		Illinois Emergency Management Agency
238		Division of Nuclear Safety
239		Bureau of Environmental Safety
240		1035 Outer Park Drive
241		Springfield, ILH 62704
242		Springhera, Ed. 62761
243	<u>c)</u>	The Agency mustshall consult with IEMA in developing the forms and format for
244	<u>v)</u>	reports required under this Section.
245		reports required under this section.
246	<u>d)e)</u>	The Agency must post copies of the follow-up reports it receives under this
247	<u>u)</u> c)	Section on the Agency's website.
247 248		because on the Agency's website.
249	(Sour	ce: Amended at 47 Ill. Reg, effective)